

Claims

1. Test device (1), especially to test the penetration characteristics of a sterilization agent with a detector-volume (24) designed to house an indicator (26) connected to a sterilization chamber via a gas-collection-volume (4) characterized in that the gas-collection-volume being multi-stage-designed so that both cross section and volume of each stage (12, 14, 16) decrease between neighboring volumes (12, 14, 16) towards the direction of the detector volume.
2. Test device (1) according to claim 1, where the cross section between neighbouring volumes (12, 14, 16) decreases towards the direction of the detector volume (24) by a minimum of 50%, better more than 75%.
3. Test device (1) according to claim 1 or 2, where the cross section of the gas-collection-volume (4) directly adjacent to the detector volume (24) is ca. 1 to 200 mm².
4. Test device (1) according to one of the claims 1 to 3, where the gas-collection-volume (4) directly adjacent to the detector volume (24) has a channel length of minimum 10 cm, better ca. 30 to 100 cm.
5. Test device (1) according to one of the claims 1 to 4, where one stage (14) of the gas-collection-volume (4) is arranged within another stage (16) of the gas-collection-volume (4).
6. Test device (1) according to claim 5, where the next stage (16) of the gas-collection-volume (4) is formed by an outside case (30) enclosing the first stage (14).
7. Test device (1) according to one of the claims 1 to 4, where one stage (14) of the gas-collection-volume (4) is built around an outside case (30) which forms another stage (16) of the gas-collection-volume (4).

8. Test device (1) according to one of the claims 1 to 7, where at least one stage (14, 16) of the gas-collection-volume (4) is filled with porous material (34).
9. Test device (1) according to one of the claims 1 to 8, where the detector volume (24) is selected to be smaller than 500 μl .
10. Test device (1) according to one of the claims 1 to 9, where a chemical or biological indicator is used as an indicator (26).